CLAIMS

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- 1. An antenna arrangement comprising a substantially planar patch conductor, having first and second connection points for connection to radio circuitry and a slot incorporated between the points, and a ground plane, wherein the antenna arrangement operates in a plurality of modes depending on the impedances of the circuitry connected to the first and second connection points.
- 2. An arrangement as claimed in claim 1, characterised in that the ground plane is spaced from, and co-extensive with, the patch conductor.
 - 3. An arrangement as claimed in claim 1, characterised in that the slot is positioned asymmetrically in the patch conductor, thereby providing an impedance transformation.
 - 4. An arrangement as claimed in claim 1, characterised in that the radio circuitry is arranged to provide a first mode in which a radio signal is fed to the first connection point and the second connection point is grounded and a second mode in which the connections are reversed.
 - 5. An arrangement as claimed in claim 1, characterised in that the radio circuitry is arranged to provide a first mode in which a radio signal is fed to the first connection point and the second connection point is open circuit and a second mode in which the connections are reversed.
 - 6. An arrangement as claimed in claim 1, characterised in that the radio circuitry is arranged to feed a radio signal to the first connection point and to provide a first mode in which the second connection point is grounded and a second mode in which the second connection point is open circuit.

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- 7. An arrangement as claimed in claim 6, characterised in that the radio circuitry include switching means connected between the second connection point and ground to change between first and second modes.
- 8. An arrangement as claimed in claim 1, characterised in that the patch conductor includes a third connection point for connection to the radio circuitry.
 - 9. An arrangement as claimed in claim 8, characterised in that a further slot is incorporated in the patch conductor between the first and third connection points.
 - 10. An arrangement as claimed in claim 8, characterised in that the radio circuitry comprises a distributed diplexer connected to the first and third connection points.
 - 11. A radio communications apparatus including an antenna arrangement as claimed in claim 1.